ABSTRACT

A method and system for controlling congestion control and avoidance behavior of a plurality of heterogeneous network processors in a network is disclosed. The network also includes at least one host processor that utilizes at least one congestion control application. The method and system include providing a plurality of generic application program interfaces (APIs). The generic APIs communicate with the congestion control application(s) and the heterogeneous network processors. The generic APIs communicate with the congestion control application(s) in the host processor(s) in a network processor independent manner, but manage the congestion control and avoidance behavior of the heterogeneous network processors in a network processor specific manner. Thus, the generic APIs allow the control application(s) to be network processor independent and to manage the congestion control and avoidance behavior of the heterogeneous network processors in the network processor specific manner.